EXHIBIT B

EXHIBIT REDACTED IN ITS ENTIRETY

EXHIBIT C

EXHIBIT REDACTED IN ITS ENTIRETY

EXHIBIT D

January 27, 2006

Page 1

IN THE UNITED STATES DISTRICT COURT

FOR THE DISTRICT OF DELAWARE

AFFYMETRIX, INC.,)

Plaintiff,)

v.)

CASE NO. 04-901 JJF

ILLUMINA, INC.,)

Defendant

VIDEOTAPED DEPOSITION OF MARVIN STODOLSKY, Ph.D.

Washington, D.C.

Friday, January 27, 2006

9:37 a.m.

Job No. 22-71849

Pages 1 - 173

Reported by: Carl W. Girard, Notary Public

Videographer: Cali Day

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			Page 7
09:39:07	1	Q. Is that Germantown, Maryland?	
09:39:09	2	A. Yes.	
09:39:09	3	Q. What's your work address?	
09:39:12	4	A. 19901 Germantown Road, Germantown,	
09:39:18	5	Maryland, 20874-1129 at the Department of Energy	
09:39:24	6	Campus in Germantown.	
09:39:25	7	Q. You currently work with the Department	
09:39:27	8	of Energy?	
09:39:28	9	A. Yes.	
09:39:28	10	Q. What's your current position with the	
09:39:30	11	Department of Energy?	
09:39:31	12	A. I'm a molecular biologist.	
09:39:34	13	Q. How long have you worked for the	
09:39:38	14	Department of Energy?	
09:39:39	15	A. I became formally a DOE employee in	
09:39:41	16	1992; however, in the period 1986 to 1992 I was	
09:39:47	17	essentially doing the same job as a detailee for	
09:39:51	18	the Argonne National Laboratory.	
09:39:55	19	Q. I will be asking you a number of	
09:39:57	20	questions today, Dr. Stodolsky, largely about some	
09:40:03	21	of the discussions, scientific presentations,	
09:40:06	22	meetings, and events from the late 1980s and early	
09:40:11	23	1990s.	
09:40:11	24	Before I go more into that I'd like to	
09:40:15	25	continue to ask you a few more questions about your	

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		Page 10
09:43:23	1	think you indicated was from 1986 to 1992 when you
09:43:26	2	were a detailee to the Department of Energy?
09:43:29	3	A. Yes.
09:43:30	4	Q. What were your responsibility as
09:43:32	5	detailee to the Department of Energy?
09:43:38	6	A. Fairly diverse. Of the team that was
09:43:43	7	office at the time I was the freshest out of the
09:43:46	8	laboratory and with the most hand-on knowledge of
09:43:48	9	issues concerning cloning resources and the DNA
09:43:54	10	technologies.
09:43:58	11	So I helped to formulate research calls,
09:44:06	12	found reviewers for research panels, managed
09:44:09	13	panels; subsequent to the panels, wrote up the
09:44:14	14	grant paperwork, which often I couldn't sign
09:44:16	15	because I wasn't a federal employee.
09:44:21	16	And site visited projects at the DOE
09:44:31	17	laboratories, helped write up the yearly progress
09:44:38	18	reports on the human genome program quite
09:44:42	19	diverse, overlapped a little bit into the
09:44:46	20	instrumentation area with my colleague Jerry
09:44:50	21	Goldstein, now retired, who was the major person
09:44:53	22	managing the instrumentation sector at the time.
09:44:58	23	Q. You mentioned that one of your
09:45:00	24	responsibilities was forming research calls?
09:45:03	25	A. Yes.

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		Page 11
09:45:03	1	Q. What is a research call?
09:45:05	2	A. Well, this is, our matriculation of what
09:45:12	3	is necessary over the next few years in the
09:45:15	4	advancement of the overall program it was the
09:45:18	5	human genome program until this case so with my
09:45:20	6	colleagues we would decide what should be
09:45:23	7	emphasized in the public and publicly request for
09:45:27	8	applications, which came out in the Federal
09:45:31	9	Register and other advertisement sources.
09:45:35	10	Q. So is this a request published in the
09:45:39	11	Federal Register to
09:45:40	12	A. Invite applications from anyone, United
09:45:43	13	States and abroad.
09:45:46	14	Q. When you say applications, the
09:45:47	15	applications for funding?
09:45:49	16	A. Correct. We would specify the general
09:45:54	17	area we were interested in, and then scientists,
09:46:01	18	businesses, were invited to submit applications
09:46:06	19	which they thought met the needs we had announced,
09:46:11	20	and then review panels would be formed to review
09:46:16	21	these applications, advising the Department of
09:46:18	22	Energy as to which would be the best ones to fund.
09:46:23	23	Q. Did you have involvement in forming
09:46:25	24	review panels that reviewed projects relating to
09:46:30	25	the human genome project?

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		Page 23
10:04:01	1	A. Well, it was never well, let me
10:04:02	2	qualify. It was never 100 percent full time in
10:04:05	3	that sense, in that we all had everyone in the
10:04:07	4	office had some overlap in other responsibilities,
10:04:11	5	as needed, by I would say like probably
10:04:15	6	functionally 90 percent of my time was, from about
10:04:21	7	1988 on, was concerned with the human genome
10:04:25	8	project.
10:04:25	9	Q. When did you first have any interaction
10:04:30	10	with either Dr. Drmanac or Dr. Crkvenjakov?
10:04:34	11	A. Right. Okay. When we had our first
10:04:39	12	public call for research under the human genome
10:04:42	13	program they put in an application, and it reviewed
10:04:50	14	well, and we set up the vehicle to the vehicles
10:04:58	15	to fund them.
10:05:01	16	The consequence the useful vehicle at
10:05:05	17	that time was there was a treaty of technical and
10:05:10	18	scientific cooperation between the United States
10:05:13	19	and Yugoslavia which greatly simplified moving of
10:05:18	20	money over there, and then they came to they
10:05:27	21	received the funding and came to our meeting
10:05:36	22	public meeting in May at Cold Spring Harbor which
10:05:39	23	was focussed on the human genome program. That was
10:05:42	24	an NIH-sponsored meeting. And they came and that's
10:05:45	25	when I first physically met them.

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		Page 28
10:11:32	1	A. Yes.
10:11:32	2	Q. Who is the reference to the Board there?
10:11:35	3	Who was that?
10:11:39	4	A. This was the board managing the treaty.
10:11:45	5	Q. The U.S./Yugoslavia Treaty?
10:11:48	6	A. Yes.
10:11:48	7	Q. There's the reference to one DOE program
10:11:52	8	officer?
10:11:53	9	A. Uh-huh.
10:11:53	10	Q. Do you see that?
10:11:54	11	A. Yes.
10:11:54	12	Q. Was there a DOE program officer that had
10:11:58	13	responsibilities for this grant by Dr. Crkvenjakov
10:12:04	14	or Drmanac?
10:12:04	15	A. The program officer was meant in a
10:12:07	16	generic sense without specifying any one but, this
10:12:12	17	was an enablement that was under the treaty, and,
10:12:19	18	in fact, the office chose me to go because I was
10:12:22	19	the one who was most familiar with these types of
10:12:27	20	technologies.
10:12:28	21	Q. When you say it was an enablement I
10:12:30	22	think under the treaty those were your words?
10:12:33	23	A. Right.
10:12:33	24	Q. Do you mean that the treaty permitted
10:12:36	25	someone to go visit their laboratory?

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10:12:38	1	MS. NOREIKA: Objection, leading. Go
10:12:41	2	ahead.
10:12:41	3	BY MR. PALS:
10:12:41	4	Q. Let me say it this way: When you said
10:12:44	5	enablement under the treaty, this was an enablement
10:12:47	6	under the treaty, what did you mean?
10:12:56	7	A. This project was funded under the
10:12:59	8	umbrella of the treaty and written up in certain
10:13:04	9	legalese and they decided to put into it when this
10:13:08	10	particular grant was written up that the funds
10:13:12	11	could be used for one of the Yugoslavia team to
10:13:16	12	come to the U.S., to report to scientific meetings
10:13:19	13	and reciprocally someone from the United States
10:13:22	14	would site visit the lab in Belgrade.
10:13:27	15	Q. You ended up being the DOE program
10:13:30	16	officer who site-visited Dr. Drmanac and
10:13:34	17	Crkvenjakov's lab?
10:13:35	18	A. Close. In fact, I was not a DOE
10:13:38	19	employee at the time but they chose to send me
10:13:40	20	because I had the strongest background in that
10:13:43	21	area.
10:13:44	22	Q. Did you go to Yugoslavia to visit
10:13:49	23	Dr. Crkvenjakov and Drmanac in 1988?
10:13:54	24	A. Yes.
10:13:56	25	Q. What do you recall about that visit?

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		Page 41
10:31:11	1	not know it at the time when I visited them, but in
10:31:15	2	fact this team was being courted by the Argonne
10:31:19	3	were in discussions with the Argonne National
10:31:22	4	Laboratory.
10:31:22	5	Actually, I did know; they did bring
10:31:25	6	that up explicitly as I recall, although that
10:31:30	7	they had been approached by a division director
10:31:38	8	Eliza Huberman to move to the Argonne National
10:31:48	9	Laboratory.
10:31:48	10	And they did ask me questions, the team
10:31:52	11	and members of the host institute on, you know,
10:31:57	12	what life would be like in the United States and
10:31:59	13	what sort of arrangements might be implemented.
10:32:03	14	Q. So there was a 1990 trip report as well?
10:32:06	15	A. Yes.
10:32:07	16	Q. So there's, just so the record is clear,
10:32:09	17	you made trips in 1988, 1989 and 1990
10:32:13	18	A. Yes.
10:32:15	19	Q to visit Drs. Crkvenjakov and
10:32:17	20	Drmanac?
10:32:18	21	MS. NOREIKA: Objection, leading.
10:32:19	22	A. Yes.
10:32:20	23	BY MR. PALS:
10:32:20	24	Q. Is that right?
10:32:21	25	A. Yes.

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		Page 50
10:45:22	1	discussion and they were certainly able to vote in
10:45:25	2	the rating of the applications.
10:45:33	3	Q. Could you turn back to Exhibit 254 which
10:45:36	4	is your 1989 trip report?
10:45:37	5	A. (Witness complied.)
10:45:39	6	Q. At the end of the second paragraph you
10:45:42	7	state, "I am technical representative for several
10:45:46	8	of the DNA sequencing technology projects within
10:45:50	9	the Human Genome Initiative."
10:45:53	10	Do you see that?
10:45:55	11	A. I'm sorry. Where is that?
10:45:56	12	Q. The second paragraph.
10:45:59	13	A. Yes.
10:46:01	14	Q. For what DNA sequencing technology
10:46:03	15	projects within the Human Genome Initiative were
10:46:08	16	you the technical representative for?
10:46:11	17	A. Oh, well, by that time I was the rep for
10:46:16	18	the Crkvenjakov and Drmanac proposal. I would have
10:46:23	19	to go back to our program report. I could pick out
10:46:27	20	the others but these are projects like in
10:46:35	21	developing of clones which were to be used for
10:46:36	22	development of vectors, development of enzymes.
10:46:44	23	I was not responsible for the
10:46:49	24	instrumentation development at that time except as
10:46:52	25	it overlaps into one of these projects and which

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10:46:55	1	are responsible for the more biological resources.
10:46:58	2	Q. Did you have responsibilities for any
10:47:01	3	funding to Dr. Foote?
10:47:06	4	A. That was mostly through my colleague
10:47:13	5	Gerald Goldstein. That was more the
10:47:16	6	instrumentation sector, but we had next-to offices
10:47:20	7	and frequently consulted with one another and keep
10:47:24	8	each other abreast of what was going on.
10:47:26	9	Q. So you had some familiarity with the
10:47:28	10	work Dr. Foote was doing?
10:47:29	11	A. Yes.
10:47:30	12	Q. Did you have any responsibilities with
10:47:32	13	respect to funding of Dr. Mirzabekov?
10:47:37	14	A. Yes. I worked through the rather
10:47:42	15	arduous process of that, because, in contrast to
10:47:44	16	the Yugoslavia case, we did not have a treaty with
10:47:48	17	Russia governing the specific thing and having
10:47:51	18	and we were still at the edges of the Cold War and
10:47:55	19	wanted to make sure we did not step on, touch any
10:48:01	20	sensitive issues in the course of implementing
10:48:05	21	this this funding, so it proceeded very
10:48:09	22	cautiously through the Department of Energy.
10:48:14	23	I wrote up several papers that went up
10:48:17	24	the track explaining what was going on and there
10:48:20	25	were no defense secrets involved and it would

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1		
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10:49:36	1	involved, and not just for the Yugoslav project but
10:49:40	2	for any of the projects. If I saw opportunities to
10:49:46	3	move the program forward by having Two groups talk
10:49:52	4	to one another, whereas they did not yet know what
10:49:55	5	was going on in each other's lab because they
10:49:59	6	hadn't been published, I would say, you know, send
10:50:02	7	them like an e-mail, or tell them at a meeting, you
10:50:02	8	know, you could benefit from talking to one
10:50:08	9	another. And I did a lot of that facilitation.
10:50:12	10	Q. In the next paragraph on the next page
10:50:15	11	of Exhibit 254, you state, second sentence, "Most
10:50:20	12	outstanding are improvements in DNA interrogation
10:50:24	13	procedures and a scheme for process
10:50:28	14	miniaturization."
10:50:29	15	Do you see that?
10:50:30	16	A. I'm sorry. Which page?
10:50:32	17	Q. In the fourth paragraph?
10:50:34	18	A. Right.
10:50:34	19	Q. What is the scheme proper process
10:50:38	20	miniaturization that you're referring to?
10:50:39	21	A. That was this concept for using small
10:50:45	22	beads as anchors for the reagents.
10:50:48	23	Q. In the next sentence of the fourth
10:50:51	24	paragraph on the first page of Exhibit 254 you
10:50:53	25	refer to the SBH team. Do you see that? First

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- 1			
			Page 54
	10:51:00	1	page, fourth paragraph third sentence.
	10:51:03	2	A. Yes.
	10:51:03	3	Q. You see "the SBH team are now seeking
	10:51:06	4	collaborators?"
	10:51:07	5	A. Yes, uh-huh.
	10:51:08	6	Q. Who was the SBH team?
	10:51:10	7	A. Well, the it was slang, acronym the
	10:51:14	8	Sequencing by Hybridization team in Belgrade,
	10:51:18	9	Crkvenjakov, Drmanac, their students, associates.
	10:51:43	10	Q. If you turn to the fifth page of your
	10:51:46	11	1989 trip report?
	10:51:47	12	A. (Witness complied.)
	10:51:51	13	Q. I'm looking at the second paragraph,
	10:51:56	14	Dr. Stodolsky.
	10:51:57	15	A. Uh-huh.
	10:51:58	16	Q. That begins "The capacity to resolve
	10:52:02	17	exact sources" Do you see that?
	10:52:08	18	A. (Witness perusing.)
	10:52:16	19	Oh, yes. Okay. Uh-huh.
	10:52:24	20	Q. You refer in the second paragraph on
	10:52:26	21	page 5 of your 1989 trip report to a manuscript,
	10:52:30	22	"Prospects for Miniaturized, Simplified and Frugal
	10:52:38	23	Human Genome Project" by Drmanac and Crkvenjakov.
	10:52:40	24	Do you see that?
	10:52:41	25	A. Yes.

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10:52:41	1	Q. That's a manuscript you received from
10:52:49	2	them?
10:52:49	3	A. I saw, at least at that time, I saw the
10:52:51	4	draft. I don't know whether it was at least the
10:52:55	5	draft. I don't remember at this point how far
10:52:57	6	along away, along the way it was to the publication
10:53:01	7	track. It was later published.
10:53:03	8	Q. Okay. You did at some point in time see
10:53:08	9	the manuscript for this article by Drs. Drmanac and
10:53:13	10	Crkvenjakov?
10:53:15	11	A. Yes.
10:53:19	12	Q. Can you explain to me what you saw and
10:53:26	13	what you discussed with Drs. Drmanac and
10:53:30	14	Crkvenjakov during your 1989 visit to their
10:53:34	15	laboratory with respect to this concept for
10:53:39	16	miniaturization using what you call in your trip
10:53:43	17	report "discrete particles?"
10:53:44	18	MS. NOREIKA: Objection to form.
10:53:48	19	A. Uh-huh. Okay. Well, this goes back to
10:53:56	20	the wavelength of the reporting signal, again.
10:54:00	21	What they were implementing at that time was the
10:54:03	22	use of blocks which with a reporting signal and an
10:54:09	23	emitted electron during radioactive decaying which
10:54:18	24	limited them to about a millimeter spacing between
10:54:18	25	the individual pixels.

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		Page 56
10:54:18	1	On the other hand, if this if this
10:54:23	2	use of flourescent reporters on the speed
10:54:27	3	particles, I call it DP here for short, could be
10:54:33	4	implemented, then they would be limited by the
10:54:36	5	wavelength of the emitting light or the or the
10:54:44	6	uniformity with which one would manufacture the
10:54:47	7	speed particles which would have been down to about
10:54:52	8	the 10 micron size at the time.
10:54:56	9	BY MR. PALS:
10:54:57	10	Q. So the idea was to put oligonucleotides
10:55:06	11	on to these discrete particles?
10:55:08	12	A. Yes.
10:55:08	13	MS. NOREIKA: Objection to form.
10:55:13	14	A. Yes. The implementation was to put
10:55:19	15	oligos on to discrete particles which would serve
10:55:27	16	two roles: One would be to sort of serve as a
10:55:31	17	license plate for the particles and the other was
10:55:34	18	to actually bind target DNAs in the interrogation
10:55:40	19	process.
10:55:40	20	BY MR. PALS:
10:55:40	21	Q. How would the let me start that over:
10:55:44	22	How could you use an oligo on a discrete particle
10:55:49	23	as a license plate to the particle?
10:55:51	24	MS. NOREIKA: Objection to form.
10:55:52	25	A. An oligo can essentially it's one

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		Page 57
10:55:57	1	form of a bar code, so in the same sense that you
10:56:00	2	have bar code readers an oligo can serve as the
10:56:04	3	same role in giving a digital report, essentially
10:56:09	4	license plate?
10:56:10	5	BY MR. PALS:
10:56:10	6	Q. How would that work?
10:56:12	7	MS. NOREIKA: Objection to worm. How
10:56:13	8	did it work? How would it work? Objection
10:56:16	9	to form.
10:56:17	10	MR. PALS: I'm sorry. You interrupted
10:56:18	11	me.
10:56:19	12	Q. When you discussed, during your trip in
10:56:23	13	1989, this concept with Dr. Drmanac and
10:56:27	14	Dr. Crkvenjakov, did they talk with you about using
10:56:30	15	oligos on discrete particles as a license plate?
10:56:34	16	MS. NOREIKA: Objection, to the extent
10:56:35	17	it calls for hearsay.
10:56:41	18	A. They certainly discussed the concept of
10:56:47	19	making beads distinguishable
10:56:50	20	BY MR. PALS:
10:56:50	21	Q. What did you discuss I'm sorry.
10:56:52	22	A by the oligos attached to them.
10:56:54	23	Q. What did you discuss with them about how
10:56:58	24	to make beads distinguishable by the oligos
10:57:01	25	attached to them?

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10:58:37	1	MS. NOREIKA: Objection to form.
10:58:40	2	A. Well, it was they told me and I
10:58:42	3	understood it; it's very straightforward. The
10:58:49	4	beads would be localized once they were on the
10:58:55	5	microscope slide and the oligos they carried would
10:59:04	6	serve to distinguishing the origin of the beads in
10:59:10	7	terms of their processing up.
10:59:12	8	So by acquisition of a flourescent
10:59:20	9	signal one could determine the identity of the
10:59:23	10	beads, one; and, two, by acquisition of a second
10:59:28	11	fluorescent signal carried by the test DNA, assess
10:59:32	12	whether the DNA whether the particular bead was
10:59:35	13	binding the test DNA whose interrogation was the
10:59:41	14	overall goal.
10:59:44	15	BY MR. PALS:
10:59:44	16	Q. Did you also discuss with them the use
10:59:49	17	of a characteristic of the bead, for example, size
10:59:51	18	or shape or color, to distinguish one population
10:59:56	19	I'm sorry, a bead with one probe DNA molecule on it
11:00:02	20	from a bead with a different probe DNA molecule on
11:00:07	21	it?
11:00:07	22	MS. NOREIKA: Objection to form.
11:00:08	23	A. It was essential to the implementation
11:00:10	24	to be able to distinguish the beads. It's a simple
11:00:14	25	concept.

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11:35:56	1	particular members of our advisory group.
11:36:00	2	And often after these meetings we would
11:36:03	3	sit down, on the basis of surveying of these
11:36:07	4	posters, and decide how to fine tune the program
11:36:10	5	for the next stage.
11:36:13	6	So there was that obligatory part and,
11:36:17	7	of course, the scientists were expected to publish
11:36:21	8	in the public literature and when they came forward
11:36:23	9	for grant renewals they should have a substantive
11:36:28	10	publication record on what they had produced with
11:36:32	11	the public funds.
11:36:46	12	Q. Following the Cold Spring Harbor
11:36:48	13	conference in 1989, are you familiar with a
11:36:58	14	conference called the Wolf Trap Sequencing
11:37:01	15	Conference?
11:37:02	16	A. Yes.
11:37:02	17	Q. Did you attend that conference?
11:37:07	18	A. Yes.
11:37:10	19	Q. Do you recall if Dr. Crkvenjakov and
11:37:12	20	Dr. Drmanac attended that conference?
11:37:13	21	A. Yes.
11:37:14	22	Q. Did they?
11:37:16	23	A. I believe so. I believe so.
11:37:49	24	Q. Dr. Stodolsky, I've marked Exhibit 258,
11:37:54	25	which has Illumina production No. 598036.

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1		
		Page 74
	1	(Exhibit 258 marked for identification.)
11:38:03	2	BY MR. PALS:
11:38:03	3	Q. Dr. Stodolsky, do you recognize Exhibit
11:38:07	4	258 as a correspondence from Dr. Crkvenjakov to
11:38:09	5	you?
11:38:10	6	A. Yes, I do.
11:38:12	7	Q. Is this from October 1989?
11:38:15	8	A. Yes.
11:38:20	9	Q. There's a reference to a "Rasha" at the
11:38:25	10	bottom after the bottom block paragraph. Do you
11:38:28	11	see that?
11:38:30	12	A. That's slang for rod for
11:38:39	13	Dr. Crkvenjakov, slang for his first name, Rasha.
11:38:44	14	Q. His first name is typed Radomir?
11:38:46	15	A. Radomir but "Rasha" was his the folks
11:38:49	16	in his lab called him "Rasha".
11:38:58	17	Q. Okay. Did the DOE provide funding to
11:39:01	18	allow Drs. Drmanac, Crkvenjakov and Mr. Labat to
11:39:07	19	attend the Wolf Trap conference?
11:39:10	20	A. It was not quite so much providing
11:39:13	21	funding as approval of the use of funds previously
11:39:18	22	provided for this usage as opposed for the research
11:39:22	23	expenditures in Belgrade.
11:39:26	24	Q. So that the U.S. government did
11:39:29	25	authorize the use of allocated funds for

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11:39:33	1	Drs. Crkvenjakov, Drmanac and Mr. Labat to come to
11:39:37	2	Wolf Trap and to a Santa Fe meeting?
11:39:41	3	MS. NOREIKA: Objection, leading.
11:39:43	4	A. Yes.
11:39:44	5	BY MR. PALS:
11:39:54	6	Q. Did you have any responsibilities for
11:39:57	7	organizing the Wolf Trap Sequencing Conference?
11:40:02	8	A. No.
11:40:03	9	Q. Did you have any responsibilities for
11:40:05	10	organizing the Santa Fe meeting?
11:40:09	11	A. Yes. I was not I was just one of a
11:40:14	12	team who helped in the development of the agenda
11:40:18	13	and typically for these meetings my office would
11:40:23	14	receive the abstracts, and then I would order them
11:40:27	15	in like groups to be published in the meeting
11:40:33	16	pamphlet.
11:40:47	17	But preparing for these meetings was a
11:40:50	18	large group effort of which I was just one person.
11:41:21	19	Q. Illumina deposition Exhibit 259 has
11:41:25	20	Illumina production numbers 597859 through 860. (Exhibit 259 marked for identification.) BY MR. PALS:
	21	(Exhibit 259 marked for identification.)
11:41:32	22	BY MR. PALS:
11:41:32	23	Q. Dr. Stodolsky, do you recognize Illumina
11:41:35	24	deposition Exhibit 259?
11:41:35	25	A. Yes, I do.

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11:41:36	1	Q. What is it?
11:41:38	2	A. It is the I guess one of the lead
11:41:44	3	pages of the agenda for the conference.
11:42:31	4	Q. I have marked as Illumina deposition
11:42:34	5	Exhibit No. 260 a document with Illumina production
11:42:38	6	numbers 597861 through 882.
	7	(Exhibit 260 marked for identification.)
11:42:46	8	BY MR. PALS:
11:42:47	9	Q. Setting aside the handwriting, at least
11:42:51	10	on the first page of Exhibit260, Dr. Stodolsky, do
11:42:55	11	you recognize Exhibit 260?
11:42:57	12	A. Yes. It's the poster abstracts for the
11:43:02	13	Wolf Trap conference.
11:43:03	14	Q. For the Wolf Trap Genome Sequencing
11:43:08	15	Conference?
11:43:08	16	A. Yes, for the Wolf Trap Genome Sequencing
11:43:09	17	Conference.
11:43:09	18	Q. Did you say before the conference?
11:43:12	19	A. No, for.
11:43:13	20	Q. For the conference.
11:43:13	21	A. It is for the conference.
11:43:16	22	Q. When you went to the conference at Wolf
11:43:21	23	Trap in October 1989, did you receive copies of
11:43:24	24	Exhibits 259 and 260 before the conference started?
11:43:33	25	A. Probably 259 probably something like

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11:43:37	1	259 was broadly publicly available in order to
11:43:42	2	elicit attendees. I suspect, but I don't have a
11:43:50	3	explicit memory, that the poster abstracts were
11:43:53	4	only made available at the conference. That would
11:43:55	5	have been typical for the time.
11:43:59	6	Q. When you arrived at the conference, the
11:44:02	7	Wolf Trap conference in October 1989, you were
11:44:05	8	handed a booklet of abstracts?
11:44:08	9	A. That would have been typical. I don't
11:44:11	10	have explicit memory.
11:44:12	11	Q. It is typical for each attendee to be
11:44:15	12	handed a booklet of abstracts?
11:44:18	13	A. Yes.
11:44:26	14	Q. You indicated earlier that
11:44:32	15	Dr. Crkvenjakov and Drmanac were at least at the
11:44:35	16	Wolf Trap conference, correct?
11:44:37	17	A. Yes.
11:44:37	18	Q. Did they give any presentations or
11:44:39	19	posters at the conference?
11:44:42	20	A. If they had an abstract, they certainly
11:44:45	21	gave a poster. The abstract just would have been
11:44:49	22	the base material for expansion into a poster.
11:44:52	23	Q. Could you look at I'll refer you to
11:44:54	24	the number in the lower right-hand corner, the
11:44:57	25	number that ends 869?

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11:48:33	1	discrete particles (DPs) as vehicles for	rage oo
	2	samples/probes."	
	3	Do you see that?	
	4	A. Yes.	
-	5	Q. To your knowledge let me ask it this	
	6	way: Do you recall Drs. Drmanac or Crkvenjakov	
11:48:57	7	discussing their proposed use of discrete particle	S
11:49:03	8	as vehicles for samples or probes prior to their	
11:49:08	9	poster presentation at Wolf trap in October 1989?	
11:49:11 1	LO	MS. NOREIKA: Objection. Hearsay.	
11:49:12 1	11	BY MR. PALS:	
11:49:12 1	12	Q. And I'm talking about public	:
11:49:14 1	13	presentation, not strictly your meeting with them	
11:49:17 1	L4	which was prior to this?	
11:49:18 1	L5	MS. NOREIKA: Same objection.	
11:49:21 1	L6	A. I do not know if they had any public	
11:49:25 1	17	presentation prior to this meeting.	
11:49:28 1	.8	BY MR. PALS:	
11:49:29 1	.9	Q. This poster presentation is a poster	
11:49:32 2	20	presentation of the concept of using discrete	
11:49:35 2	21	particles that you discuss with them in your trip	
11:49:40 2	22	to their laboratory and discussed in your trip	
11:49:44 2	23	report, Exhibit 254; is that correct?	
11:49:48 2	24	A. That is correct.	
11:50:07 2	25	Q. Do you recall how long the poster	

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11:50:08	1	presentations were at the Wolf Trap conference?
11:50:14	2	A. Not explicitly, but the typical format
11:50:17	3	of these poster presentations was that you would
11:50:22	4	have a hall. There would be a table with hors
11:50:27	5	d'oeuvres and people would put things on their
11:50:30	6	paper plates and wander around for the poster
11:50:32	7	sessions which could last for anyone from let's say
11:50:36	8	for a minimum of an hour or they might be up for
11:50:39	9	three hours with various people, from a group,
11:50:42	10	taking turns at the poster. That's just a typical
11:50:46	11	format.
11:50:47	12	Q. Prior to the Wolf Trap conference was
11:50:49	13	there any requirement that people execute any
11:50:52	14	confidentiality agreement?
11:50:54	15	A. Not I know of.
11:50:56	16	Q. Was the Wolf Trap conference a public
11:50:59	17	conference?
11:50:59	18	A. Yes.
11:51:00	19	Q. The information that was disclosed and
11:51:01	20	discussed was intended to be information that could
11:51:04	21	be used by others?
11:51:05	22	A. Most definitely.
11:51:21	23	Q. Do you know if people took any notes
11:51:24	24	during the poster sessions at the Wolf trap
11:51:30	25	conference?

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11:51:30	1	A. Some certainly did to typically you
11:51:32	2	would wander around with your book of abstracts and
11:51:36	3	stop and talk to the presenter at the poster or
11:51:43	4	just make some additional notes alongside your
11:51:45	5	abstract. That was typical behavior among the
11:51:51	6	scientists.
11:51:52	. 7	Q. Note-taking was permitted?
11:51:56	8	A. Oh, yes.
11:51:56	9	Q. And people had their abstract booklets
11:51:57	10	at the time of the poster session?
11:51:58	11	A. Oh, yes, definitely.
11:53:11	12	Q. Dr. Stodolsky, I have marked and handed
11:53:14	13	to you Illumina deposition Exhibit 262 which has
11:53:19	14	Illumina production numbers 597958 through 598013.
	15	(Exhibit 262 marked for identification.)
11:53:32	16	BY MR. PALS:
11:53:32	17	Q. Dr. Stodolsky, do you recognize Illumina
11:53:34	18	deposition Exhibit 262?
11:53:35	19	A. Yes. This was the pamphlet prepared in
11:53:39	20	preparation for our 1989 workshop.
11:53:44	21	Q. Did you participate in the preparation
11:53:46	22	of Exhibit 262?
11:53:49	23	A. Yes. I would have received the
11:53:54	24	abstracts and sorted them into like groups for
11:54:03	25	assembly into the final pamphlet of which this is a

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11:54:07	1	part, and with projects of similar type being
11:54:11	2	physically close to one another.
11:54:14	3	Q. So Exhibit 262 is a portion of the
11:54:18	4	collection of abstracts that was distributed at the
11:54:21	5	Santa Fe meeting?
11:54:21	6	A. I think it is likely the whole
11:54:23	7	collection. There seems to be missing from here
11:54:27	8	some of the introductory pages for it could be
11:54:31	9	that this is just a workshop session, excuse me,
11:54:35	10	the abstract collection. There was usually in the
11:54:39	11	whole program port there would be several
11:54:42	12	introductory page.
11:54:44	13	Q. There are some introductory pages at the
11:54:46	14	minimum missing from what was
11:54:47	15	A. It could be or this could just be the
11:54:50	16	abstract handout and later it did all appear in
11:54:55	17	some larger program workshop report. This is
11:54:59	18	just the abstract session but it's probably
11:55:03	19	complete so far as the abstracts go.
11:55:05	20	Q. Exhibit 262 is a collection of abstracts
11:55:08	21	that you reviewed and compiled for distribution at
11:55:12	22	the Santa Fe meeting?
11:55:14	23	A. Correct.
11:55:17	24	Q. Were the abstracts in Exhibit 262 made
11:55:24	25	available at the beginning of the Santa Fe meeting

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			Page 84
11:55:27	1	in 1989?	
11:55:28	2	A. Yes; typically, people would come and	
11:55:30	3	they would register and they would be given one of	
11:55:33	4	these clothbacks with the abstracts and other	
11:55:36	5	meeting materials and meal tickets and	
11:55:40	6	advertisements about the local environment and so	
11:55:42	7	forth.	
11:55:42	8	Q. That's the way it was done at the Santa	
11:55:45	9	Fe meeting?	
11:55:47	10	A. Yes.	
11:55:59	11	Q. Could you look in Exhibit 262 at the	
11:56:04	12	page the number on the bottom right-hand corner	
11:56:08	13	is 597996, it appears to the book page is probably	
11:56:12	14	P37 if that's easier for you?	
11:56:15	15	A. (Witness perusing.) Uh-huh.	
11:56:22	16	Q. On page P37 of Exhibit 262 there's an	
11:56:25	17	abstract entitled "Miniaturization of Sequencing b	У
11:56:30	18	Hybridization (SBH): A Novel Method for Genome	
11:56:34	19	Sequencing."	
11:56:40	20	Do you see that?	
11:56:40	21	A. Yes, I do.	
11:56:40	22	Q. Is this an abstract of presentation that	it
11:56:41	23	Dr. Crkvenjakov and Drmanac made at the Santa Fe	
11:56:46	24	meeting in November 1989?	
11:56:47	25	A. Yes, it is.	

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11:56:48	1	Q. In the posters that were presented at
11:56:52	2	the Santa Fe meeting were the abstracts included on
11:56:57	3	the poster?
11:56:59	4	A. Yes, definitely.
11:57:02	5	Q. Was the abstract on P37 of Exhibit 262
11:57:05	6	included on the poster presented by Dr. Crkvenjakov
11:57:09	7	and Drmanac in Santa Fe?
11:57:12	8	A. I'm sure it was; it was custom and
11:57:15	9	practice, though I can't claim an explicit
11:57:17	10	knowledge that it was there, but that was the
11:57:21	11	customary format.
11:57:43	12	Q. At the Santa Fe meeting in November
11:57:46	13	1989, did Drs. Crkvenjakov and Drmanac present on
11:57:52	14	the discrete particle miniaturization ideas that
11:57:57	15	they discussed with you at their lab in 1989 and
11:58:02	16	that we saw in your 1989 trip report?
11:58:05	17	A. This poster is a continuation of it.
11:58:08	18	Q. It's a continuation of that discrete
11:58:10	19	particle work?
11:58:12	20	A. Yes.
11:58:59	21	Q. Dr. Stodolsky, I've handed to you
11:59:04	22	Exhibits 263 which has Illumina production numbers
11:59:08	23	597916 through 597925.
	24	(Exhibit 263 marked for identification.)
11:59:13	25	BY MR. PALS:

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11:59:13	1	Q. Dr. Stodolsky, is Exhibit 263 a list of
11:59:16	2	the attendees at the Santa Fe conference in
11:59:20	3	November 1989?
11:59:21	4	A. Yes; it is.
11:59:34	5	Q. On the page with production number
11:59:37	6	597921 of Exhibit 263 there is an entry identifying
11:59:43	7	you as an attendee. Do you see that?
11:59:46	8	A. (Witness perusing.) Yes.
11:59:53	9	Q. It identifies a DOE address for you.
11:59:55	10	This is the period when you were on loan from
11:59:59	11	Argonne to DOE?
12:00:02	12	A. Yes. That is correct.
12:00:14	13	Q. Prior to the Santa Fe conference in
12:00:17	14	November 1989 was there any requirement that people
12:00:20	15	execute a confidentiality agreement?
12:00:23	16	A. None.
12:00:24	17	Q. Was the information that was presented
12:00:27	18	at the Santa Fe meeting in November 1989 intended
12:00:29	19	to be information that was public and for use of
12:00:34	20	the people that attended and heard the information?
12:00:37	21	A. It was a completely open meeting, not
12:00:41	22	only to scientists of our program, but members of
12:00:44	23	the press; there was some commercial
12:00:45	24	representatives.
12:00:49	25	Q. So it was fully public?

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12:00:51	1	A. Fully public, for anyone who paid the
12:00:53	2	registration fee.
12:01:12	3	Q. Did you talk to Drs. Crkvenjakov or
12:01:19	4	Drmanac about their poster during the Santa Fe
12:01:23	5	conference in November 1989?
12:01:27	6	A. Undoubtedly, though I can't remember the
12:01:32	7	specific conversation, and more than likely I would
12:01:39	8	have gotten together with them and other people who
12:01:40	9	they might collaborate with over a lunch or a beer
12:01:43	10	or, you know, more than once during the
12:01:47	11	meetingand similarly with all the other projects
12:01:52	12	I was responsible to. It was just my
12:01:54	13	responsibility to thus circulate.
12:01:58	14	Q. Did people take notes during the
12:02:02	15	presentations at the Santa Fe conference?
12:02:04	16	A. I'm sure they did.
12:02:05	17	Q. There is no prohibition against them
12:02:07	18	taking
12:02:08	19	A. There was no prohibition. Some people
12:02:12	20	brought cameras and took pictures of posters they
12:02:17	21	were particularly interested in.
12:02:18	22	Q. And there was no prohibition against
12:02:20	23	that, either?
12:02:21	24	A. No.
12:02:22	25	Q. I'm sorry. I just introduced a double

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12:02:25	1	negative. Is it correct that there was no
12:02:28	2	prohibition against taking pictures of posters?
12:02:31	3	A. There was no prohibition against taking
12:02:34	4	pictures of posters.
12:03:19	5	Q. Dr. Stodolsky, I've handed you Illumina
12:03:24	6	deposition exhibit number 264 which that Illumina
12:03:28	7	production numbers 598104 through 598025.
	8	(Exhibit 264 marked for identification.)
12:03:33	9	BY MR. PALS:
12:03:33	10	Q. Do you recognize Illumina deposition
12:03:36	11	Exhibit 264?
12:03:37	12	A. Yes. This was one of our periodic
12:03:40	13	publications in the course of the human genome
12:03:43	14	project about one per quarter.
12:03:45	15	Q. Was this publicly available?
12:03:47	16	A. Yes.
12:03:49	17	MR. PALS: As a matter recordkeeping
12:03:51	18	during production, this was when it was
12:03:55	19	produced by us, it was stamped as
12:03:58	20	"confidential," which is incorrect. We
12:04:03	21	withdraw any designation of confidentiality
12:04:06	22	as to this.
12:04:07	23	Q. Dr. Stodolsky, was Exhibit 264 in any
12:04:10	24	way confidential?
12:04:12	25	A. No.